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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Xiaojia WANG, *et al.*

Application Serial No.: 10/762,196

Filed: January 21, 2004

For: **ADHESIVE AND SEALING  
LAYERS FOR  
ELECTROPHORETIC DISPLAYS**

Group Art Unit: 2879

Examiner: Not Yet Assigned

Confirmation No. 2492

Attorney's Docket No:  
7783.0078.NPUS01

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- 1. This Information Disclosure Statement is being filed;
  - ☐ a. Within three months of the U.S. filing date of a national application other than a continued prosecution application under §1.53(d);
  - ☐ b. Within three months of the date of entry of the national stage as set forth in §1.491 in an international application;
  - c. Before the mailing date of a first Office Action on the merits;
  - ☐ d. Before the mailing of a first Office Action after filing of a request for continued examination under § 1.115.

No statement under 37 C.F.R. § 1.97(e) or fee is required.

or;

- ☐ 2. This Information Disclosure Statement is being filed after the period specified in paragraph 1(a)-1(d) above, but before the mailing date of a Final Rejection or Notice of Allowance, or action that otherwise closes prosecution in the application, and
  - ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or

- ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2), or
- ☐ c. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(p).
- ☐ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but on or before payment of the Issue Fee. Attached is our Check No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ in payment of the fee under 37 C.F.R. § 1.17(i), and
- ☐ a. I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1), or
- ☐ b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).
- ☐ 4. Relevance of the non-English language document(s) is discussed in the present specification.

- ☐ 5. The document(s) was/were cited in a corresponding foreign application. An English language version of the foreign search report is attached for the Examiner's information.
- ☐ 6. A concise explanation of the relevance of the non-English language document(s) appears below:
- ☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.
- ☐ 8. Copies of the documents were cited by or submitted to the Office in Application No. \_\_\_\_\_, filed \_\_\_\_\_, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

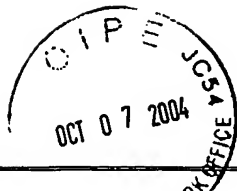
The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 08-3038 referencing docket number **07783.0078.NPUS01**.

Respectfully submitted,

Date: October 7, 2004

  
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<b>INFORMATION DISCLOSURE CITATION</b>  <b>SUPPLEMENTAL PTO-1449</b>			ATTY. DOCKET NO. <b>07783.0078.NPUS01</b>		SERIAL NO. <b>10/762,196</b>		
			APPLICANT : <b>Xiaojia Wang, et al.</b>				
			FILING DATE: <b>January 21, 2004</b>		GROUP: <b>2879</b>		
<b>U.S. PATENT DOCUMENTS</b>							
EX'R INITIAL	PATENT NO.	DATE MM-YYYY	NAME	CLASS	SUBCLASS	FILING DATE	
	3,612,758	10-1971	Evans et al				
	3,958,199	05-1976	Berger et al				
	3,979,212	09-1976	Peters et al				
	5,360,873	11-1994	Saito et al				
	5,462,797	10-1995	Williams et al				
	5,961,804	10-1999	Jacobson et al				
	5,930,026	07-1999	Jacobson et al				
	09/518,488	03-2000	Liang et al				
	09/606,654	06-2000	Liang et al				
	09/759,212	01-2001	Liang et al				
	09/784,972	02-2001	Chan-Park et al				
	09/874,391	06-2001	Zang et al				
	09/879,408	06-2001	Chen et al				
	10/222,297	08-2002	Zang et al				
	10/651,540	08-2003	Pereira et al				
	60/396,680	07-2002	Wu et al				
	60/408,256	09-2002	Pereira et al				
	60/413,225	09-2002	Chen et al				
	60/429,177	11-2002	Liang et al				
<b>FOREIGN PATENT DOCUMENTS</b>							
EX'R INITIAL	PATENT NO.	DATE MM-YYYY	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	EP 0 305 175	03-1989	Europe				
	01/67170	09-2001	WIPO				

	PCT/US04/0016920 Int'l Search Report	07/2004	WO				
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EX'R INITIAL	DOCUMENT						
	Allen, K. (2003, October). Electrophoretics Fulfilled. <i>Emerging Displays Review: Emerging Display Technologies, Monthly Report - October 2003</i> , 9-14.						
	Bicerano, J. (2002) "Prediction of Polymer Properties" 3 <sup>rd</sup> edition, Marcel Dekker, Inc.						
	Chen, S.M. (2003, July) The Applications for the Revolutionary Electronic Paper Technology. <i>OPTO News &amp; Letters</i> , 102, 37-41. (in Chinese, English abstract attached, full translation available upon request)						
	Chen, S.M. (2003, May) The New Applications and the Dynamics of Companies. <i>TRI</i> . 1-10. (In Chinese, English abstract attached, full translation available upon request)						
	Chung, J., Hou, J., Wang, W., Chu, L.Y., Yao, W., & Liang, R.C. (2003, December). Microcup(R) Electrophoretic Displays, Grayscale and Color Rendition. <i>IDW</i> , AMD2/EP1-2, 243-246.						
	Ho, C., & Liang, R.C. (2003, December). <i>Microcup (R) Electronic Paper by Roll-to-Roll Manufacturing Processes</i> . Presentation conducted at FEG, Nei-Li, Taiwan.						
	Hopper, M.A. & Novotny, V., (1979) IEEE Trans. Electr. Dev., 26(8), 1148-1152.						
	Ku, C. C. & Liepins, R. (1987) "Electrical Properties of Polymers", Hanser Publishers.						
	Lee, H., & Liang, R.C. (2003, June) SiPix Microcup(R) Electronic Paper – An Introduction. <i>Advanced Display</i> , 3, 4-9 (in Chinese, English abstract attached, full translation available upon request)						
	Liang, R.C. (2003, February) <i>Microcup(R) Electrophoretic and Liquid Crystal Displays by Roll-to-Roll Manufacturing Processes</i> . Presentation conducted at the Flexible Microelectronics & Displays Conference of U.S. Display Consortium, Phoenix, Arizona, USA.						
	Liang, R.C., Hou, J., Chung, J., Wang, X., Pereira, C., & Chen, Y. (2003). Microcup(R) Active and Passive Matrix Electrophoretic Displays by A Roll-to-Roll Manufacturing Processes. <i>SID Digest</i> , 20.1.						
	Liang, R.C., Hou, J., & Zang, H.M. (2002, December) Microcup Electrophoretic Displays by Roll-to-Roll Manufacturing Processes. <i>IDW</i> , EP2-2, 1337-1340.						
	Liang, R.C., Hou, J., Zang, H.M., & Chung, J. (2003, February). <i>Passive Matrix Microcup(R) Electrophoretic Displays</i> . Paper presented at the IDMC, Taipei, Taiwan.						
	Liang, R.C., Hou, J., Zang, H.M., Chung, J., & Tseng, S. (2003). Microcup(R) displays : Electronic Paper by Roll-to-Roll Manufacturing Processes. <i>Journal of the SID</i> , 11(4), 621-628.						
	Liang, R.C., & Tseng, S. (2003, February). <i>Microcup(R) LCD, An New Type of Dispersed LCD by A Roll-to-Roll Manufacturing Process</i> . Paper presented at the IDMC, Taipei, Taiwan.						
	Nikkei Microdevices. (2002, December) Newly-Developed Color Electronic Paper Promises – Unbeatable Production Efficiency. <i>Nikkei Microdevices</i> , 3. (in Japanese, with English translation)						
	Zang, H.M, Hwang, J.J., Gu, H., Hou, J., Weng, X., Chen, Y., et al. (2004, January). Threshold and Grayscale Stability of Microcup (R) Electronic Paper. <i>Proceeding of SPIE-IS&amp;T Electronic Imaging, SPIE Vol. 5289</i> , 102-108.						

/	Zang, H.M. (2003, October). <i>Microcup (R) Electronic Paper by Roll-to-Roll Manufacturing Processes</i> . Presentation conducted at the Advisory Board Meeting, Bowling Green State University, Ohio, USA.
/	Zang, H.M., & Liang, R.C. (2003) <i>Microcup Electronic Paper by Roll-to-Roll Manufacturing Processes</i> . <i>The Spectrum</i> , 16(2), 16-21.
<b>EXAMINER:</b>	<b>DATE CONSIDERED:</b>
<b>EXAMINER:</b> Initial if citation considered, whether or not the citation conforms with MPEP 609. Draw a line through the citation if not in conformance and not considered. Include a copy of this form with next communication to applicant.	
*If an asterisk is placed beside the reference number, a copy is not provided because the reference was previously cited by or submitted to the PTO in a prior application that is identical in the statement and relied upon for an earlier filing date under 35 U.S.C. §120. 37 C.F.R. §1.98 (d).	